

Amendments To The Claims

Please amend Claims 4, 6-9 and 11-26 as follows:

1. (Original) A method comprising:

in response to a request to perform a set of operations on a plurality of logical volumes,
identifying a first storage region of a plurality of storage regions to allocate for a first
operation of the set of operations on a first logical volume of the plurality of
logical volumes; and
determining whether a second operation of the set of operations can be performed on a
second logical volume of the plurality of logical volumes using a subset of the
plurality of storage regions, wherein
the subset excludes the first storage region.

2. (Original) The method of claim 1 further comprising:

if the second operation cannot be performed using the subset of the plurality of storage
regions,
identifying a third storage region of the plurality of storage regions to allocate for the
first operation, and
determining whether the second operation can be performed using a second subset of
the plurality of storage regions, wherein
the second subset excludes the third storage region.

3. (Original) The method of claim 2 further comprising:

if the first storage region is allocated for the first operation on the first logical volume,
de-allocating the first storage region, and
including the first storage region in the second subset prior to determining whether the
second operation can be performed.

4. (Currently Amended) The method of claim 1 [[2]] further comprising:

identifying a respective set of rules to configure each respective logical volume of the
plurality of logical volumes prior to identifying the first storage region, wherein

the respective set of rules for each respective logical volume is used to identify a respective storage region to allocate for the respective logical volume.

5. (Original) The method of claim 4 wherein
the determining whether the second operation can be performed comprises
examining a second respective set of rules for the second logical volume.

6. (Currently Amended) The method of claim 1 [[2]] further comprising:
determining a respective storage region to allocate for each respective operation of the set of operations by
determining whether a remaining operation of the set of operations can be performed using an unallocated subset of the plurality of storage regions, wherein
the remaining operation excludes the respective operation,
the unallocated subset excludes the respective storage region, and
the unallocated subset excludes an allocated subset of the plurality of storage regions, wherein
each storage region in the allocated subset is allocated to one of the set of operations.

7. (Currently Amended) The method of claim 1 [[2]] wherein
each operation of the set of operations is one type of operation.

8. (Currently Amended) The method of claim 1 [[2]] wherein
a first operation of the set of operations is a first type of operation,
a second operation of the set of operations is a second type of operation, and
the first type and the second type are different.

9. (Currently Amended) The method of claim 1 [[2]] wherein
the first storage region conforms to a first intent of the first logical volume.

10. (Original) The method of claim 9 wherein
the first intent comprises a first rule used to configure the first storage region to provide the first logical volume.

11. **(Currently Amended)** The method of claim 1 [2] further comprising:
performing the first operation on the first logical volume using the first storage region.
12. **(Currently Amended)** The method of claim 1 [2] wherein
one operation of the set of operations is one of the following:
creating the first logical volume;
growing the second logical volume; and
adding a mirror to a third logical volume of the plurality of logical volumes.
13. **(Currently Amended)** A computer-readable storage medium for storing computer executable instructions, wherein a method is performed in response to executing the instructions, the method comprising:
in response to a request to perform a set of operations on a plurality of logical volumes,
identifying a first storage region of a plurality of storage regions to allocate for a first operation of the set of operations on a first logical volume of the plurality of logical volumes; and
determining whether a second operation of the set of operations can be performed on a second logical volume of the plurality of logical volumes using a subset of the plurality of storage regions, wherein the subset excludes the first storage region.
14. **(Currently Amended)** The computer-readable storage memory medium of claim 13 wherein the method further comprises:
if the second operation cannot be performed using the subset of the plurality of storage regions,
identifying a third storage region of the plurality of storage regions to allocate for the first operation, and
determining whether the second operation can be performed using a second subset of the plurality of storage regions, wherein
the second subset excludes the third storage region.

15. (Currently Amended) The computer-readable storage memory medium of claim 14 wherein the method further comprises:

if the first storage region is allocated for the first operation on the first logical volume,
de-allocating the first storage region, and
including the first storage region in the second subset prior to determining whether the second operation can be performed.

16. (Currently Amended) The computer-readable storage memory medium of claim 13 [[14]] wherein the method further comprises:

identifying a respective set of rules to configure each respective logical volume of the plurality of logical volumes prior to identifying the first storage region, wherein the respective set of rules for each respective logical volume is used to identify a respective storage region to allocate for the respective logical volume.

17. (Currently Amended) The computer-readable storage memory medium of claim 16 wherein

the determining whether the second operation can be performed comprises examining a second respective set of rules for the second logical volume.

18. (Currently Amended) The computer-readable storage memory medium of claim 13 [[14]] wherein the method further comprises:

determining a respective storage region to allocate for each respective operation of the set of operations by

determining whether a remaining operation of the set of operations can be performed using an unallocated subset of the plurality of storage regions, wherein the remaining operation excludes the respective operation, the unallocated subset excludes the respective storage region, and the unallocated subset excludes an allocated subset of the plurality of storage regions, wherein each storage region in the allocated subset is allocated to one of the set of operations.

19. (Currently Amended) The computer readable storage memory medium of claim 13 [[14]] wherein

each operation of the set of operations is one type of operation.

20. (Currently Amended) The computer-readable storage memory medium of claim 13 [[14]] wherein

a first operation of the set of operations is a first type of operation,
a second operation of the set of operations is a second type of operation, and
the first type and the second type are different.

21. (Currently Amended) The computer-readable storage memory medium of claim 13 [[14]] wherein

the first storage region conforms to a first intent of the first logical volume.

22. (Currently Amended) The computer-readable storage memory medium of claim 21 wherein

the first intent comprises a first rule used to configure the first storage region to provide the first logical volume.

23. (Currently Amended) The computer-readable storage memory medium of claim 13 wherein the method further comprises:

performing the first operation on the first logical volume using the first storage region.

24. (Currently Amended) The computer-readable storage memory medium of claim 13 wherein

one operation of the set of operations is one of the following:

creating the first logical volume;

growing the second logical volume; and

adding a mirror to a third logical volume of the plurality of logical volumes.

25. (Currently Amended) A computer-readable storage memory medium that stores instructions executable by a computer system, wherein the computer system implements a method in response to executing the instructions, the instructions method comprising:

a first set of instructions configured to receive receiving a request to create first and second logical volumes, wherein the first and second logical volumes are required to have first and second storage structures, respectively, and first and second storage quantities, respectively;

a second set of instructions configured to select selecting a first collection of physical memory regions;

a third set of instructions configured to allocate allocating the first collection of physical memory regions to create the first and second logical volumes;

a fourth set of instructions configured to determine determining whether the first and second logical volumes have the first and second storage quantities, respectively, and the first and second storage structures, respectively;

a fifth set of instructions configured to if the first and second logical volumes do not have the first and second storage quantities, respectively, and the first and second storage structures, respectively, then select a second collection of physical memory regions, wherein the second collection is different from the first collection, if the first and second logical volumes do not have the first and second storage quantities, respectively, and do not have the first and second storage structures, respectively.

26. (Currently Amended) The computer readable storage medium of claim 25 wherein the instructions method further comprise[[s]]:

a sixth set of instructions configured to allocate allocating the second collection of physical memory regions to create new first and second logical volumes;

a seventh set of instructions configured to determine determining whether the new first and second logical volumes have the first and second storage quantities, respectively, and the first and second storage structures, respectively.